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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,606	11/14/2003	Young H. Kim	CL2229USNA	2509
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LEGAL PATE	NT RECORDS CENTI	WALKE, AMANDA C		
BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.   Applicant(s)							
Examiner Amanda C. Walke  1752	Office Action Summary		Application No.	Applicant(s)			
Amanda C. Walke  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address −  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Estrateors of time may be variable under the provision of 37 CFR 1.136(a). In no event, however, may a reply be limitely filed after SIX (9) MONTHS from the mailing date of this communication.  If NO period or reply is paid above, the mailing date of this communication.  Finitive to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. € 133). Any reply received by the Office late than three enoints after the mailing date of this communication. Even of the mailing date of this communication. Even if timely filed, may reduce any canned patent term adjustment. See 37 CFR 1.704(b).  Status  1) □ Responsive to communication(s) filed on 29 March 2007.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 25-44 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) 25-44 is/are rejected.  7) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are objected to .  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on			10/713,606	KIM			
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2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
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Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:	3) Infon	mation Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Informal P				

Application/Control Number: 10/713,606 Page 2

Art Unit: 1752

## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/29/2007 has been entered.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 25-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over of Kaneko et al (6,107,360) in view of applicant's admitted prior art.

Kaneko et al disclose a UV sensitive resin (column 7, lines 44-63) for use in a process of making a semiconductor device similar to that instantly claimed wherein the (meth)acylate having a (meth)acryloyl group may be selected from monomers including isobutyl (meth)acrylate, t-butyl acrylate, 2-ethylhexyl (meth)acrylate, ethoxyethoxyethyl (methacrylate), and isobornyl (meth)acrylate. These monomers may be employed alone or in a mixture. It wouldhave been obvious to one of ordinary skill in the art to prepare the material of the reference choosing to employ a combination of two monomers, and employ ethoxyethoxyethyl

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methacrylate (formula II) and a t-butyl methacrylate with reasonable expectation of achieving a material having excellent scratch resistance.

While the material of the reference is employed in a semiconductor/ electronic device preparing process, the reference is silent with respect to the instantly claimed method steps.

In the background of the invention, page 1, lines 9-21, and summary on page 2, lines 4-10 applicant admits that the instantly claimed process is well known and that the polymeric composition of the protective layer is novel.

Therefore, given the teaching by applicant that such methods are known in the art, and by the Kaneko et al reference that a photosensitive composition to be employed in methods of fabricating electronic devices includes the monomers as instantly claimed, it would have been obvious to one of ordinary skill in the art to prepare a device by the admitted known method, employing as the composition for the protective patternable layer the photoresist of Kaneko et al.

## Response to Arguments

3. Applicant's arguments filed 3/29/2007 have been fully considered but they are not persuasive. Applicant has argued that the reference fails to teach that the resin may be employed in a method of forming a pattern. The examiner respectfully disagrees. The reference clearly states that its polymeric material may be employed in a semiconductor processing method meaning that it is contemplated for use as a light sensitive material in a lithographic patterning method (column1, lines 15-23). Therefore the rejection is maintained.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MMM La C Walke Amanda C Walke Primary Examiner · Art Unit 1752 Page 4

ACW June 10, 2007